

93385845
IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Douglas Aircraft Company Attn: Rob Tuell C6-59 19503 South Normandie Avenue Torrance, CA 90502		C AD 086510005		A. State Manifest Document Number 93385845	
4. Generator's Phone ((310) 533- 7926 or (310) 533- 7231		6. US EPA ID Number		B. State Generator's ID H A H Q 36005698	
5. Transporter 1 Company Name Laidlaw Environmental Services of CA, Inc.		C A D 000083121		C. State Transporter's ID 423551	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (310) 518- 4700	
9. Designated Facility Name and Site Address Norris Environmental Services 5215 South Boyle Avenue Los Angeles, CA 90058		10. US EPA ID Number C A D 097030993		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone (213) 588-7111	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol
a. RQ, Waste caustic alkali liquids, n.o.s. (sodium tetraborate, dimethyl sulfoxide), 8, UN1719, PG III (D007)		001 TT		11030	P
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above 11a. E0106200125AK. Tank 176 and rinse water Sodium tetraborate 0-1% Turco 4215 NC-LT 0-5% Sodium sulfide 0-1% Turco 4215-LT Additive 0-1% R03 06-24-94		K. Handling Codes for Wastes Listed Above a. b. c. d.			
15. Special Handling Instructions and Additional Information 24 Hour emergency telephone number (800) 424- 9300 (Chemtrec). DOT ERG# 11a) 60					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Robert G. Tuell, Jr.		Signature Robert G. Tuell, Jr.		Month 06	Day 24
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature James Hubbard		Year 94	
Printed/Typed Name James Hubbard		Signature		Month 06	Day 24
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Year 94	
Printed/Typed Name		Signature		Month	Day
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month	Day
				Year	

DO NOT WRITE BELOW THIS LINE.

WORK ORDER

221 E. "D" ST. • P.O. Box 1175
WILMINGTON, CA 90748-1175
(310) 518-4700 / (800) 955-5359

CUSTOMER/ACCT. NO

240120

WORK ORDER NO.

10205

BILLING ADDRESS

SERVICE ADDRESS

DOUGLAS AIRCRAFT
TORRANCE

0615

0700

ORDER DATE	DATE TO BE DONE 6/24/94	CUSTOMER P.O. # 27064-H608	ORDERED BY	TELEPHONE#	CONTACT PERSON
REP.	DIV. #	DEPARTMENT	CUSTOMER'S EPA #	CUSTOMER'S BD OF EQUAL #	CONTACT PHONE #

RB9 06-24-94

JAMIE + 1 DRIVER

Time arrived at DAC Torrance: 0700

Time left DAC Torrance: 1215

2

DRIVER COMPLETE:

SERVICES PERFORMED

TKR 176
Pump out Sodium Poly-
phosphate tank and rinse water haul to
Vernon for disposal

START TIME 0615

STOP TIME

START MILES 154086

END MILES

TRUCK NUMBER 16039

TRAILER NUMBER 16043T

Manifest Number 93385845

Date Completed 6/24/94 Drivers Name J Hubbard

Comments

In the event of any litigation arising out of this agreement or any transaction contemplated hereby, the prevailing party shall be entitled to reasonable attorney's fees, expenses and costs.

NOT AN INVOICE - BILLING WILL FOLLOW

Customer Signature

Robert G. Trull, Jr. 06-24-94

PRICING INSTRUCTIONS - DRUMS

Clerical _____	Hrs. @ _____	Per Hr. _____
Project Manager _____	Hrs. @ _____	Per Hr. _____
First Technician _____	Hrs. @ _____	Per Hr. _____
Second Technician _____	Hrs. @ _____	Per Hr. _____
Third Technician _____	Hrs. @ _____	Per Hr. _____
Fourth Technician _____	Hrs. @ _____	Per Hr. _____
Fifth Technician _____	Hrs. @ _____	Per Hr. _____
Truck # _____	Hrs. @ _____	Per Hr. _____
Truck # _____	Hrs. @ _____	Per Hr. _____
Truck # _____	Hrs. @ _____	Per Hr. _____

Sundays, Holidays, and After Hours @ _____ % = _____

TRANSPORTATION & DISPOSAL FEES TO TSD FACILITY

5 Gal. Cans Liquid @ _____	Each _____
5 Gal. Cans Solid @ _____	Each _____
5 Gal. Cans Lab Packed @ _____	Each _____
55 Gal. Drums Liquid @ _____	Each _____
55 Gal. Drums Solid @ _____	Each _____
55 Gal. Drums Lab Packed @ _____	Each _____
Empty 5 Gal. Cans @ _____	Each _____
Empty 55 Gal. Cans @ _____	Each _____

County Tax _____

MATERIALS USED

5 Gal. Cans @ _____	Each _____
55 Gal. Drums @ _____	Each _____
Recovery Drums @ _____	Each _____
Bags Vermiculite @ _____	Each _____
Bags (Other Describe) @ _____	Each _____
Hazardous Waste Labels @ _____	Each _____
Drum Liners @ _____	Each _____
Safety Equipment Number of Sets _____	Each _____

PRICING INSTRUCTIONS - PUMPING

Compensation _____	Hrs. @ _____	Per Hr. _____
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Washout Fee _____

Dump Fee _____

TOTAL _____

Generator Name: Douglas Aircraft Co

Manifest Number: 95845/193385845

EPA ID Number: CAD086510005

Date of Shipment: 06-24-94

Indicate Waste Line Item (11): A

This notification is hereby submitted to NORRIS ENVIRONMENTAL SERVICES in compliance with EPA regulations described in 40 CFR Part 268 which prohibit the land disposal of certain hazardous wastes, unless these wastes are treated to meet specified standards or treated using specified treatment technologies.

I have marked the appropriate box(es) below, which indicates how my waste must be managed to conform to land disposal ban and federal regulations.

California List Wastes Notification

RCRA Land Disposal Notification

Waste Requires Treatment

- ☐ Liquid hazardous waste including free liquids associated with any solid or sludge containing free cyanide at concentrations greater than or equal to 1000mg/L.

Treatment Standard-Cyanide Destruction Stabilization

- ☒ Liquid hazardous wastes, including free liquids associated with any solid or sludge, containing the following metals (or elements) at concentrations greater than or equal to those specified below:

Treatment Standard-Neutralization, Precipitation: Metals Recovery

(check those that apply)

- | | |
|---|-------------|
| <input type="checkbox"/> Arsenic and/or compounds (as As) | 5.0 mg/L: |
| <input type="checkbox"/> Barium and/or compounds (as Ba) | 100.0 mg/L: |
| <input type="checkbox"/> Cadmium and/or compounds (as Cd) | 1.0 mg/L: |
| <input checked="" type="checkbox"/> Chromium (VI and/or compounds as Cr VI) | 5.0 mg/L: |
| <input type="checkbox"/> Lead and/or compounds (as Pb) | 5.0 mg/L: |
| <input type="checkbox"/> Mercury and/or compounds (as Hg) | 0.2 mg/L: |
| <input type="checkbox"/> Selenium and/or compounds (as Se) | 1.0 mg/L: |
| <input type="checkbox"/> Silver and/or compounds (as Ag) | 5.0 mg/L: |

- ☐ Liquid hazardous wastes that are primarily water and contain halogenated organic compounds (HOCs) in total concentration greater than or equal to 1,000 mg/L and less than 10,000 mg/L HOCs (see attached listing of HOC constituents)

Treatment Standard-Carbon Absorption Steam Stripping

- ☐ Liquid hazardous wastes containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 ppm.

Treatment Standard-Incineration, high efficiency boiler, other thermal treatment

- ☐ Liquid hazardous wastes having a pH less than or equal to two(2) or pH equal to or greater than 12.5.

Treatment Standard-Neutralization Stabilization

- ☐ The spent solvent wastes specified in 40 CFR 261.31 as EPA Hazardous Wastes Nos F001, F002, F003, F004 and F005.

Treatment Standard-Specify technology used to meet Table CCWE. Check constituent(s) on Table CCWE which were required below treatment standards

The most recent copy of waste analysis or a description of the knowledge upon which this notification is based is attached. I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Print Name Robert G. Tuell, Jr.

Title Senior Plant Engineer

Date 06-24-94

(310) 533-7926

- ☒ I am the initial generator of an untreated waste identified above which must be treated in the appropriate treatment standard set forth in 40 CFR 268 Subpart D, or where treatment standard exists for the California List Waste, the waste must be treated to the levels specified under 40 CFR 268.32.

Waste Treated to Performance Standards

- ☐ The waste identified above has been treated in compliance with the applicable performance standards specified in 40 CFR 268 Subpart D and/or the applicable prohibitions set forth in 40 CFR 268.32. "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(s) without dilutions of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Waste Subject to Variance

- ☐ The waste identified above is subject to a case-by-case extension under 40 CFR 268.5, a no-migration petition under 40 CFR 268.6, a nationwide variance under Subpart C, or is soil or debris generated from a response action taken under CERCLA or corrective action under RCRA.



D.O.T. EMERGENCY RESPONSE GUIDE 60

(FOLD ON DOTTED LINE—STAPLE TO HAZARDOUS MATERIALS SHIPPING PAPER)

Use basic description and technical name as described in 49 CFR 172.202 and 172.203 (K).

Basic Description: _____

Technical Name(s): _____

EMERGENCY
RESPONSE
GUIDE
FORM

24 hr. Emergency Contact Tel. No.: _____

D.O.T. EMERGENCY RESPONSE GUIDE 60

POTENTIAL HAZARDS

HEALTH HAZARDS

Contact causes burns to skin and eyes.
If inhaled, may be harmful.
Fire may produce irritating or poisonous gases.
Runoff from fire control or dilution water may cause pollution.

FIRE OR EXPLOSION

Some of these materials may burn, but none of them ignites readily.
Flammable/poisonous gases may accumulate in tanks and hopper cars.
Some of these materials may ignite combustibles (wood, paper, oil, etc.)

EMERGENCY ACTION

Keep unnecessary people away; isolate hazard area and deny entry.
Stay upwind; keep out of low areas.
Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection.
CALL CHEMTREC AT 1-800-424-9300 FOR EMERGENCY ASSISTANCE.
If water pollution occurs, notify the appropriate authorities.

FIRE

Some of these materials may react violently with water.
Small Fires: Dry chemical, CO₂, water spray or regular foam.
Large Fires: Water spray, fog or regular foam.
Move container from fire area if you can do it without risk.
Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks.

SPILL OR LEAK

Do not touch or walk through spilled material; stop leak if you can do it without risk.
Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.
Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
Large Spills: Dike far ahead of liquid spill for later disposal.

FIRST AID

Move victim to fresh air; call emergency medical care.
In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.
Remove and isolate contaminated clothing and shoes at the site.
Keep victim quiet and maintain normal body temperature.

Information on this Guide Page is from the 1990 Emergency Response Guidebook Dot P 5800.5. It applies only to the basic description and technical name entered by the shipper at the top of this form.

Check to see whether the shipper commodity (Basic description entered at the top of this form) is listed by I.D.# and NAME OF THE MATERIAL in the Table of Initial Isolation and Protective Action Distances. This Table is partially reproduced on the back of this Guide Page to reflect only commodities assigned to this Guide Number. Use this information from the table in addition to the Guide Page **IF THERE IS NO FIRE.**

READ AND CHECK THE NAMES AND NUMBERS CAREFULLY BECAUSE COMPLETELY DIFFERENT HAZARDOUS MATERIALS CAN HAVE NAMES AND/OR NUMBERS WHICH ARE ALMOST THE SAME!

ERF 60 Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808

INITIAL ISOLATION PROTECTION TABLES FOR SELECTED HAZARDOUS MATERIALS

The table gives suggested distances for ISOLATING unprotected people from spill areas involving the hazardous materials shown, **IF THE LISTED MATERIAL IS NOT ON FIRE**. If the material is on fire, refer to the 2-digit Guide.

These materials were selected because their vapors have the potential to produce poisonous effects. The table is useful for no more than the first 30 minutes of an incident involving these materials. There are several good reasons for suggesting that the use of the table be limited specifically to the initial phase of a **no-fire** spill incident during transport.

D.O.T. EMERGENCY RESPONSE GUIDE 60

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

USE THIS TABLE WHEN THE MATERIAL IS <u>NOT</u> ON FIRE.		SMALL SPILLS (Leak or spill from a small package or small leak from a large package.)		LARGE SPILLS (Leak or spill from a large package or spill from many small packages.)	
ID No.	NAME OF MATERIAL	First ISOLATE in all directions— (Feet)	Then, PROTECT those persons in the DOWNWIND direction— (Miles)	First, ISOLATE in all directions— (Feet)	Then, PROTECT those persons in the DOWNWIND direction— (Miles)

No chemicals appear in Table of Isolation and Protective Action Distances which are assigned to this Guide number.

If the chemical name and ID Number the shipper entered on the front of this form match a name from this list, **and NO FIRE exists**, you must:

determine if the incident involves a small or large spill; look up the isolation distance; (Direct all person to move in a crosswind direction, away from the spill, to that distance.) look up the initial PROTECTIVE ACTION DISTANCE in the table. (For practical purposes, the Protective Action Zone is a square whose length and width are the same as the downwind distance shown in the table.)

WHEN APPROACHING THE SCENE OF AN ACCIDENT INVOLVING ANY CARGO (NOT ONLY REGULATED HAZARDOUS MATERIALS):

- APPROACH INCIDENT FROM AN UPWIND DIRECTION, IF POSSIBLE
- MOVE AND KEEP PEOPLE AWAY FROM INCIDENT SCENE
- DO NOT WALK INTO OR TOUCH ANY SPILLED MATERIAL
- AVOID INHALING FUMES, SMOKE AND VAPORS EVEN IF NO HAZARDOUS MATERIALS ARE INVOLVED
- DO NOT ASSUME THAT GASES OR VAPORS ARE HARMLESS BECAUSE OF LACK OF SMELL—ODORLESS GASES OR VAPORS MAY BE HARMFUL

As a first responder at the scene of a hazardous materials incident, seek additional and more specific information about any material in question as soon as possible. This Guide Page is not intended for use during the cleanup phase for spilled materials, nor should it be used to determine compliance with any regulations. This information on this Emergency Response Form should be augmented by expert technical advice as soon as you have assessed the situation and have seen to the immediate needs of the people involved.

FOR FURTHER INFORMATION REFER TO DOT P 5800.5 (EMERGENCY RESPONSE GUIDEBOOK) AND TITLE 49 CODE OF FEDERAL REGULATIONS.

TURCO MATERIAL SAFETY
DATA SHEET

ORIGINAL D Pm 2776-5

Date: 10/15/93

TURCO 4215 NC-LT

CS No.: 00268
Page 1 of 4

SECTION I MANUFACTURER'S NAME AND ADDRESS

Manufacturer's Name: TURCO PRODUCTS, INC.
DIVISION OF ELF ATOCHEM NORTH AMERICA
Address: 7320 BOLSA AVENUE
WESTMINSTER, CA 92684
Emergency telephone: (202) 483 7616
For information: (714) 890-3600

SAFETY HEALTH AND
ENVIRONMENTAL AFFAIRS
OCT 14 1993

SECTION II HAZARD INFORMATION

NOTE: This product and/or the container it is packaged in contain components known to the State of California to cause cancer, reproductive damage or birth defects.

THE FOLLOWING INGREDIENTS ARE DEFINED TO BE HAZARDOUS
PER 29CFR 1910-1200:

NAME (CAS)	CERCLA RQ	RCRA NO	SARA REPORTABLE	%	
1 NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL (9016-45-9)	NOT LISTED	NOT LISTED	NO	5	25%
ACGIH TLV: NOT ESTABLISHED					
OSHA PEL: NOT ESTABLISHED					
2 ALKYL POLYOXYALKYLENE GLYCOL ETHER (68154-97-2)	NOT LISTED	NOT LISTED	NO	<5	<25%
ACGIH TLV: NOT ESTABLISHED					
OSHA PEL: NOT ESTABLISHED					
3 DIETHYLENE GLYCOL MONOBUTYL ETHER (112-34-5)	NOT LISTED	NOT LISTED	YES	<5	<25%
ACGIH TLV: NOT ESTABLISHED					
OSHA PEL: NOT ESTABLISHED					
4 SODIUM TETRABORATE, PENTAHYDRATE (1303-96-4)	NOT LISTED	NOT LISTED	NO	45	0-3 2.25
ACGIH TLV: 1 mg/m3					
OSHA PEL: 10 mg/m3					
5 SODIUM NITRATE (7631-99-4)	NOT LISTED	NOT LISTED	NO	5	25%
ACGIH TLV: NOT ESTABLISHED					
OSHA PEL: NOT ESTABLISHED					
6 SODIUM SILICO FLUORIDE (16893-85-9)	NOT LISTED	NOT LISTED	NO	<5	<25%
ACGIH TLV: 2.5 mg/m3(F)					
OSHA PEL: 2.5 mg/m3(F)					
7 SODIUM TRIPOLYPHOSPHATE (7758-29-4)	NOT LISTED	NOT LISTED	NO	35	2%
ACGIH TLV: NOT ESTABLISHED					
OSHA PEL: NOT ESTABLISHED					

THIS MSDS COMPLIES WITH THE COMMUNITY RIGHT-TO-KNOW LAWS
OF CERTAIN STATES, INCLUDING PENNSYLVANIA AND NEW JERSEY.

CARCINOGENS: NONE (AS DEFINED IN 29CFR 1910-1200, APPENDIX A(1))

DOT INFORMATION

PROPER SHIPPING NAME: NOT REGULATED BY DOT IN NORMAL GROUND TRANSPORTATION
IN CONTAINERS OF 110 GALLONS OR LESS

SECTION III PHYSICAL PROPERTIES (TYPICAL)

Boiling point: Not applicable	Specific gravity: Not applicable
Vapor pressure: Not applicable	Volatile: Not applicable
Vapor density: Not applicable (air=1)	Evaporation rate: Not applicable (BuAc=1)
Solubility in water: Appreciable	pH: 3% in solution 10.0
Appearance and odor: White free flowing powder; mild odor	

SECTION IV - FIRE AND EXPLOSION HAZARDS:

FLASH POINT AND METHOD USED:
Nonflammable - Not applicable

EXTINGUISHING MEDIA:
Not applicable

SPECIAL FIRE FIGHTING PROCEDURE AND PRECAUTIONS:
Use self-contained respiratory protection.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None

SECTION V - HEALTH AND EMERGENCY INFORMATION:

EFFECTS OF OVER-EXPOSURE: EYES:
Contact with eyes may cause moderate to severe irritation.

SKIN:
Contact with skin may cause moderate to severe irritation.

INHALATION:
Inhalation of product dust or mist from product solution may cause
irritation of respiratory tract. Inhalation of large amounts may
cause systemic effects. See ingestion.

INGESTION:
Moderate to severe irritation of gastrointestinal tract.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED:
No known chronic effects that differ from acute effects.

SECTION VA - FIRST AID INFORMATION:

FIRST AID: EYES:
Flush eyes with large volumes of water for at least 15 minutes. If
irritation persists, obtain medical attention.

SKIN:

Flush affected area with large volumes of water. Continue flushing at least 15 minutes. If irritation is evident or blistering occurs, obtain medical attention.

INHALATION:

Remove to fresh air. Administer oxygen if breathing is difficult. Obtain medical attention if irritation persists.

INGESTION:

Do not induce vomiting except on advice of competent medical personnel. If victim is conscious, dilute by giving large volumes of milk or water. Obtain immediate medical attention. Never attempt to induce vomiting or give anything by mouth to an unconscious person.

PRIMARY ROUTES OF ENTRY ARE INHALATION AND SKIN CONTACT.

SECTION VI - REACTIVITY DATA:

STABILITY: STABLE

CONDITIONS TO AVOID:

Contact with strong acid, strong caustic, strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS:

None

SECTION VII - SPILL, LEAK AND DISPOSAL PROCEDURE:

SPILL OR RELEASE PROCEDURE: CONCENTRATE

Cleanup personnel should use appropriate protective equipment. Shovel dry spill into DOT-approved drums for disposal. Keep spill dry until as much as possible has been swept up and shoveled into disposal drums. Residual amounts should be dissolved in water and solution collected in DOT-approved drums for disposal. Do not allow product or rinse water from spill to enter sewer or waterways.

USE SOLUTION:

Confine spill. Stop leak at source if this can be done safely. Ventilate area. Pump liquid into drums for disposal. Absorb remaining liquid onto inert absorbent and place in sealable containers for disposal. Wash area with water. Residual amounts may be flushed to sewer if local regulations permit.

DISPOSAL INFORMATION: CONCENTRATE:

(1) Transfer to reclaiming center for recycling or reuse, if possible.

(2) Transfer to licensed waste treatment or disposal site for disposition under applicable local, state and regional regulations.

SPENT SOLUTION AND RINSES:

Dispose per (1) or (2) above, or spent solution and rinses can be neutralized and floatable soil separated. Any residual organic matters may be removed by oxidation and/or carbon treatment. Treat to remove phosphates if required. Clarified water may be released to sewer if local regulations permit.

SECTION VIII - SPECIAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION:

For dust or mist conditions, a NIOSH-approved respirator for toxic dusts and mists is advised. If respirators are used, a formal training and screening program must be initiated. See 29 CFR 1910-134.

VENTILATION:

Maintain sufficient mechanical ventilation to keep vapor concentration below TLV.

PROTECTIVE EQUIPMENT:

Protective equipment: Face shield or goggles, gloves, boots and apron made of neoprene or other impervious material. Protective suit not normally required, but advised if necessary to avoid prolonged or repeated skin contact or other exposure.

RECOMMENDED PERSONAL HYGIENE

Wash hands and face with soap and water before smoking or eating. Immediately remove all contaminated clothing. Launder separately before reuse.

SECTION IX - OTHER INFORMATION:

SPECIAL PRECAUTIONS - STORAGE AND HANDLING:

Store in dry protected area.

MIXING:

Carefully add to water while mixing, taking care to avoid splashing. Use appropriate safety equipment to eliminate possibility of skin or eye contact. Make additions to in-use tanks slowly and cautiously.

REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT:

Relieve any pressure. Cover openings to avoid spurting. Clean exterior and interior by flushing with water. Collect flushings for disposal. Use protective equipment for eyes, skin and inhalation.

**

CHECKED BY: John P. Jones, Research Manager

APPROVED BY: John F. Grainger, Director Tech. Serv.

DATE PREPARED: 04/16/91 DATE PRINTED: 10/15/93 FILE NO: 4215.045/0

64 FLOZ

100 gal

0-1%

64

12800

x100

0.5%

TURCO MATERIAL SAFETY
DATA SHEET

DPM 2776-6

Date: 10/15/93

TURCO 4215-LT ADDITIVE

ORIGIN

CS No.: 02029

Page 1 of 3

SECTION I MANUFACTURER'S NAME AND ADDRESS

Manufacturer's Name: TURCO PRODUCTS, INC.

DIVISION OF ELF ATOCHEM NORTH AMERICA

Address:

7320 BOLSA AVENUE

WESTMINSTER, CA 92684

SAFETY HEALTH AND
ENVIRONMENTAL AFFAIRS

OCT 14 1993

Emergency telephone: (202) 483 7616

For information: (714) 890-3600

SECTION II HAZARD INFORMATION

NOTE: This product and/or the container it is packaged in contain components known to the State of California to cause cancer, reproductive damage or birth defects.

THE FOLLOWING INGREDIENTS ARE DEFINED TO BE HAZARDOUS
PER 29CFR 1910-1200:

NAME (CAS)

CERCLA

RCRA

SARA

%

RQ

NO

REPORTABLE

DIMETHYLSULFOXIDE (67-68-5)

NOT LISTED

NOT LISTED

NO

75

ACGIH TLV: NOT ESTABLISHED

OSHA PEL: NOT ESTABLISHED

THE FOLLOWING INGREDIENTS ARE NOT REQUIRED TO BE LISTED BY
29CFR 1910-1200, BUT ARE LISTED IN CONFORMANCE WITH
THE 'RIGHT-TO-KNOW' LAWS OF CERTAIN STATES, INCLUDING
PENNSYLVANIA AND NEW JERSEY:

WATER (7732-18-5)

CARCINOGENS: NONE (AS DEFINED IN 29CFR 1910-1200, APPENDIX A(1))

DOT INFORMATION

PROPER SHIPPING NAME: NOT REGULATED BY DOT IN NORMAL GROUND TRANSPORTATION
IN CONTAINERS OF 110 GALLONS OR LESS

SECTION III PHYSICAL PROPERTIES (TYPICAL)

Boiling point: Approx. 212 deg. F.

Vapor pressure: Approx. 25mmHg

Vapor density: >1

(air=1)

Solubility in water: Complete

Appearance and odor:

Clear colorless liquid, mild garlic odor

Specific gravity: 1.10

Volatile, % by volume: Approx. 100

Evaporation rate: 1

(BuAc=1)

pH: Concentrated 7.0

SECTION IV - FIRE AND EXPLOSION HAZARDS:

FLASH POINT AND METHOD USED: 210 Fahrenheit.(TCC or Setaflash)

EXTINGUISHING MEDIA:

Not applicable

SPECIAL FIRE FIGHTING PROCEDURE AND PRECAUTIONS:

Use self-contained respiratory protection.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

SECTION V - HEALTH AND EMERGENCY INFORMATION:

EFFECTS OF OVER-EXPOSURE: EYES:

Contact with eyes may cause moderate to severe irritation.

SKIN:

DMSO is rapidly absorbed through the skin or mucuous membranes and may produce smarting, redness or contact dermatitis. It has also produced garlic like breath, headache, sedation, diarrhea, and disturbances in color vision in some individuals after dermal contact. It may accelerate the skin absorption of other materials including toxics.

INHALATION:

Not applicable under normal conditions of use.

INGESTION:

Based on animal data, large oral dosages can produce bloody urine, kidney damage, or liver damage. The estimated mean lethal single dose in an adult human male exceeds 1 quart.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED:

Repeated skin exposure can result in allergic sensitization and scaling dermatitis. Dimethyl sulfoxide may accelerate the absorption of toxic materials through the skin. These materials may exhibit chronic health effects. No other known chronic effects that differ from acute effects.

SECTION VA - FIRST AID INFORMATION:

FIRST AID: EYES:

Flush eyes with large volumes of water for at least 15 minutes. If irritation persists, obtain medical attention.

SKIN:

If irritation is evident, flush area with clean cool water and discontinue use.

INHALATION:

Not normally required.

INGESTION:

Do not induce vomiting except on advice of competent medical personnel. If victim is conscious, dilute by giving large volumes of milk or water. Obtain immediate medical attention. Never attempt to induce vomiting or give anything by mouth to an unconscious person.

PRIMARY ROUTES OF ENTRY ARE INHALATION AND SKIN CONTACT.

SECTION VI - REACTIVITY DATA:

STABILITY: STABLE

CONDITIONS TO AVOID:

Contact with strong oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition may produce sulfur oxides, formaldehyde and methyl mercaptan

SECTION VII - SPILL, LEAK AND DISPOSAL PROCEDURE:

SPILL OR RELEASE PROCEDURE: CONCENTRATE

Consult your environmental supervisor. Ventilate the area. Dilute and flush to wastewater treatment system.

USE SOLUTION:

See Turco Material Safety Data Sheet for product with which this product is used. If this product is not being used as an additive, contact your local Turco Territory Manager for further information.

DISPOSAL INFORMATION: CONCENTRATE:

(1) Transfer to reclaiming center for recycling or reuse, if possible.

(2) Transfer to licensed waste treatment or disposal site for disposition under applicable local, state and regional regulations.

SPENT SOLUTION AND RINSES:

Dilute and flush to an approved wastewater treatment system as per mill requirements. Bacterial decomposition of dimethyl sulfoxide during wastewater treatment can result in the release of dimethyl sulfide (a volatile substance with a strong disagreeable odor).

SECTION VIII - SPECIAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION:

Not normally required.

VENTILATION:

Local exhaust as needed.

PROTECTIVE EQUIPMENT:

Butyl rubber gloves, safety glasses and apron.

RECOMMENDED PERSONAL HYGIENE

Wash hands with soap and water before smoking or eating.

SECTION IX - OTHER INFORMATION:

SPECIAL PRECAUTIONS - STORAGE AND HANDLING:

Store in dry protected area. Information given in this MSDS is for normal conditions of use where exposure to product is brief and intermittent involving small quantities. If exposure is prolonged or large volumes are being handled, confer with local Turco Territory Manager for applicable guidelines.

MIXING:

Does not apply.

REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT:

See Turco Material Safety Data Sheet for product with which this product is used. If this product is not being used as an additive, contact your local Turco Territory Manager for additional information.

CHECKED BY: John P. Jones, Research Manager

APPROVED BY: John F. Grainger, Director Tech. Serv.

DATE PREPARED: 10/12/90 DATE PRINTED: 10/15/93 FILE NO: 5578.005/0

WEIGHT TICKET

VENDOR: Laidlaw

TRUCK #: 16039/16043

DATE: 06/24/94

CONTENTS:

Tank 176 and Rinsewater from cleaning tank

DISPOSAL FACILITY: Norris

DRIVER: J. Hubbard

N/A

DRUM COUNT

GALLONS

GROSS

43,300 P

TARE

32,270 P

NET

11,030 P

STATE MANIFEST, DOCUMENT NUMBER: 85845/93385845